

Title (en)

RUGGED MODULAR PC104 CHASSIS WITH BLIND MATE CONNECTOR AND FORCED CONVECTION COOLING CAPABILITIES

Title (de)

ROBUSTES MODULARES PC104-CHASSIS MITBLINDVERBINDER UND FÄHIGKEITEN DER ERZWUNGENEN KONVEKTIONSKÜHLUNG

Title (fr)

BAIE PC104 MODULAIRE ROBUSTE POURVU DE POSSIBILITES DE CONNEXION COMPLEMENTAIRE A L'AVEUGLE ET DE REFROIDISSEMENT PAR CONVECTION FORCEE

Publication

EP 1566085 A4 20090617 (EN)

Application

EP 03786650 A 20031121

Priority

- US 0335966 W 20031121
- US 30300402 A 20021125

Abstract (en)

[origin: US2004100767A1] A chassis for circuit cards has a housing, a front end, a connector end, and a top cover. The housing has an airflow slot on its underside, and the top cover is open in nature, the combination of which allows the flow of forced convection air from top to bottom (or vice versa) to cool the circuit cards. The connector end has alignment pins which assist in blind mating of the chassis in difficult to access areas. Stabilizer rods, spacers and spacer brackets, made from stainless steel, hold the circuit cards in place and protect them from shock, vibration, and other trauma. The front end has a jacking type screw which enables one to exert sufficient pressure so that the greater than 200 I/O pins at the connector end are easily forced into receiving sockets.

IPC 1-7

H05K 7/20

IPC 8 full level

H05K 7/14 (2006.01)

CPC (source: EP US)

H05K 7/1408 (2013.01 - EP US); **H05K 7/1412** (2013.01 - EP US)

Citation (search report)

- [XAY] GB 1282040 A 19720719 - SMITHS INDUSTRIES LTD [GB]
- [XAY] US 3479568 A 19691118 - SHAPIRO LABAN D, et al
- [A] US 4430691 A 19840207 - REA CLYDE M [US]
- [XA] US 4845591 A 19890704 - PAVIE DENIS [FR]
- See references of WO 2004049105A2

Designated contracting state (EPC)

FR GB

DOCDB simple family (publication)

US 2004100767 A1 20040527; US 6760220 B2 20040706; EP 1566085 A2 20050824; EP 1566085 A4 20090617; EP 1566085 B1 20120808; JP 2006507687 A 20060302; JP 4896403 B2 20120314; KR 101088502 B1 20111201; KR 20050086800 A 20050830; WO 2004049105 A2 20040610; WO 2004049105 A3 20040916

DOCDB simple family (application)

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